Amendments to the Claims

Please amend Claims 1, 8, 15, 21, 24 and 38. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

- 1. (Currently amended) An electromagnetic radiation-absorbing particle comprising:
 - (a) a core; and
 - (b) a shell encapsulating the core;

wherein the core comprises a first conductive material having a negative real part of the dielectric constant in a predetermined spectral band; and wherein the shell comprises a material having the refractive index different from the refractive index of the first conductive material, said material selected from the group consisting of a second conductive material different from the first conductive material [[;]] and a refracting material.

- 2. (Original) The particle of claim 1 wherein said particle exhibits an absorption cross-section greater than 1 in a predetermined spectral band.
- 3. (Original) The particle of claim 1 wherein the particle is substantially spherical.
- 4. (Previously Presented) The particle of claim 3 wherein the particle has a diameter from about 0.1 nm to about 300 nm.
- 5 6. (Cancelled)
- 7. (Previously Presented) The particle of claim 1 wherein the core material is selected from a group consisting of Ag, Al, Mg, Cu, Ni, Cr, TiN, ZrN, and HfN.

8. (Currently Amended) The particle of claim 1 wherein both the core and the shell comprise conductive materials, and wherein the materials of the core and the shell are selected so that the particle exhibits a peak of absorption in a range of wavelengths from about 200 nm to about [[750]] 700 nm.

9 - 14. (Cancelled)

15. (Currently amended) The particle of claim 1 wherein the shell comprises a refracting material, and wherein thickness of the shell and/or the size of the core are independently adjusted so that the particle exhibits a peak of absorption in a range of wavelengths from about 200 nm to about [[750]] 700 nm.

16 - 20. (Cancelled)

21. (Currently amended) A method of manufacturing a particle that absorbs a particular range of radiation comprising the step of encapsulating a core with a shell,

wherein the core comprises a first conductive material having a negative real part of the dielectric constant in a predetermined spectral band; and wherein the shell comprises a material <u>having the refractive index different from the refractive index of the first conductive material</u>, said material selected from the group consisting of a second conductive material different from the first conductive material [[;]] and a refracting material.

22. (Original) The method of claim 21 wherein the core comprises a first conductive material and the shell comprises a second conductive material different from the first conductive material, and wherein the first and the second conducting materials are selected so that the particle exhibits a peak of absorption in a desired spectral band.

- 23. (Previously Presented) The method of claim 21 wherein the shell comprises a refracting material, and wherein the thickness of the shell is selected so that the particles exhibits a peak of absorption in a desired spectral band.
- 24. (Currently amended) An electromagnetic radiation-absorptive material for substantially blocking passage of a selected spectral band of radiation comprising:
 - (a) a carrier material; and
 - (b) a particulate material dispersed in the carrier material with a primary particle comprising

a core; and

a shell encapsulating said core, and wherein the shell comprises a first conductive material having a negative real part of the dielectric constant in a predetermined spectral band; and wherein the shell comprises a material <u>having</u> the refractive index different from the refractive index of the first conductive material, said material selected from the group consisting of a second conductive material different from the first conductive material [[;]] and a refracting material.

- 25. (Original) The material of claim 24 wherein the carrier is selected from the group consisting of glass, polyethylene, polypropylene, polymethylmethacrylate, polystyrene, and copolymers thereof.
- 26. (Original) The material of claim 24 further comprising one or more distinct particulate materials.
- 27. (Previously Presented) The material of claim 24 wherein the material is selected from the group consisting of ink, paint, lotion, gel, film and solid.

28 - 33. (Cancelled)

- 34. (Original) The material of claim 24 wherein the primary particles are further embedded in beads.
- 35. (Cancelled)
- 36. (Previously Presented) The particle of Claim 1 wherein the shell material is selected from the group consisting of Ag, Al, Mg, Cu, Ni, Cr, TiN, ZrN and HfN.
- 37. (Previously Presented) The particle of Claim 1 wherein the shell material is selected from the group consisting of Si, ZrO₂ and TiO₂ and Al₂O₃.
- 38. (Currently Amended) The material of Claim 24 wherein the material is a textile, textile-like, or a foam matrix selected from a group consisting of gauze, rayon, polyester, polyurethane, polyolefin, cellulose and its derivatives, cotton, orlon acrylic copolymers (Orlon®), nylon polyamides (Nylon®), and hydrogel polymeric materials.
- 39. (Previously Presented) The material of claim 27 wherein the material is attached to a self-adhering elastomeric bandage.